

**ABSTRACT**

An appliance controller is disclosed that monitors the operation of an appliance and automatically adjusts the appliance in response to predefined audio activity. The disclosed appliance controller includes one or more microphones to capture audio information associated with an appliance. A number of exemplary appliance adjustment rules define various audio features that suggest when an appliance setting should be adjusted. Each rule contains one or more audio features and a corresponding appliance adjustment that should be performed when the rule is satisfied. The appliance adjustment rules can be predefined or dynamically determined from observed user behavior.

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